

## SEQUENCE LISTING

```
<110> Corvera, Silvia
      Lambright, David
<120> LIPID BINDING MOLECULES AND METHODS OF
      USE
<130> 07917-171001
<140> US 10/634,679
<141> 2003-08-04
<150> US 60/400,619
<151> 2002-08-02
<160> 23
<170> FastSEQ for Windows Version 4.0
<210> 1
<211> 60
<212> PRT
<213> Artificial Sequence
<220>
<223> Lipid binding domain
<221> VARIANT
<222> 2, 3, 5-9, 11-12, 14-17, 30-33, 35-36, 38-47, 51, 57-58, 60
<223> Xaa = any amino acid
<221> VARIANT
<222> 18
<223> Xaa = Ala or Thr
<221> VARIANT
<222> 19, 20, 48-50, 52-53
<223> Xaa = u = a highly hydrophobic residue such as
      Phe, Val, Ile, Leu, Met, Trp, Tyr, or Thr
<221> VARIANT
<222> 21
\langle 223 \rangle Xaa = j = a positively charged residue such as Arg
      or Lys
<221> VARIANT
<222> 22, 23
<223> Xaa = Arg or Lys
<221> VARIANT
<222> (28)...(0)
<223> Xaa = Ala, Gly or Val
<400> 1
```

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Trp Xaa Xaa Asp Xaa Xaa Xaa Xaa Cys Xaa Xaa Cys Xaa Xaa Xaa
Xaa Xaa Xaa Xaa Xaa Xaa His His Cys Arg Xaa Cys Xaa Xaa Xaa
                              25
40
Xaa Xaa Xaa Xaa Arg Val Cys Xaa Xaa Cys Xaa
<210> 2
<211> 66
<212> PRT
<213> Homo sapiens
<400> 2
Leu Asn Arg Lys Trp Ala Glu Asp Asn Glu Val Gln Asn Cys Met Ala
Cys Gly Lys Gly Phe Ser Val Thr Val Arg Arg His His Cys Arg Gln
Cys Gly Asn Ile Phe Cys Ala Glu Cys Ser Ala Lys Asn Ala Leu Thr
                          40
Pro Ser Ser Lys Lys Pro Val Arg Val Cys Asp Ala Cys Phe Asn Asp
Leu Gln
65
<210> 3
<211> 65
<212> PRT
<213> Mus musculus
<400> 3
Arg Ala Pro Asp Trp Val Asp Ala Glu Glu Cys His Arg Cys Arg Val
1
                                  10
Gln Phe Gly Val Val Thr Arg Lys His His Cys Arg Ala Cys Gly Gln
                              25
Ile Phe Cys Gly Lys Cys Ser Ser Lys Tyr Ser Thr Ile Pro Lys Phe
                          40
Gly Ile Glu Lys Glu Val Arg Val Cys Glu Pro Cys Tyr Glu Gln Leu
Asn
65
<210> 4
<211> 67
<212> PRT
<213> Homo sapiens
<400> 4
Val Ala Pro Val Trp Val Pro Asp Ser Gln Ala Pro Asn Cys Met Lys
                                  10
Cys Glu Ala Arg Phe Thr Phe Thr Lys Arg Arg His His Cys Arg Ala
                              25
Cys Gly Lys Val Phe Cys Ala Ser Cys Cys Ser Leu Lys Cys Lys Leu
                          40
Leu Tyr Met Asp Arg Lys Glu Ala Arg Val Cys Val Ile Cys His Ser
                       55
```

```
Val Leu Met
<210> 5
<211> 64
<212> PRT
<213> Homo sapiens
<400> 5
Ser Val Val Pro Trp Val Asn Asp Gln Asp Val Pro Phe Cys Pro Asp
                                    10
Cys Gly Asn Lys Phe Ser Ile Arg Asn Arg Arg His His Cys Arg Leu
                                25
            20
Cys Gly Ser Ile Met Cys Lys Lys Cys Met Glu Leu Ile Ser Leu Pro
                            40
Asp Asp Arg Ile Arg Cys Cys Thr His Cys Lys Asp Thr Leu Leu
<210> 6
<211> 68
<212> PRT
<213> Rattus norvegicus
Arg Ala Pro Arg Trp Ile Arg Asp Asn Glu Val Thr Met Cys Met Lys
                                    10
Cys Lys Glu Ser Phe Asn Ala Leu Thr Arg Arg Arg His His Cys Arg
                                25
            20
Ala Cys Gly His Val Val Cys Trp Lys Cys Ser Asp Tyr Lys Ala Gln
                            40
Leu Glu Tyr Asp Gly Gly Arg Leu Asn Lys Val Cys Lys Asp Cys Tyr
Gln Ile Met Ser
65
<210> 7
<211> 68
<212> PRT
<213> Homo sapiens
<400> 7
Arg Ala Pro Thr Pro Ile Arg Glu Lys Glu Val Thr Met Cys Met Arg
                                    10
Cys Gln Glu Pro Phe Asn Ser Ile Thr Lys Arg Arg His His Cys Lys
                                25
Ala Cys Gly His Val Val Cys Gly Lys Cys Ser Glu Phe Arg Ala Arg
                            40
Leu Val Tyr Asp Asn Asn Arg Ser Asn Arg Val Cys Thr Asp Cys Tyr
Val Ala Leu His
65
<210> 8
<211> 14
<212> PRT
<213> Homo sapiens
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```
<400> 8
Cys Glu Ala Arg Phe Thr Phe Thr Lys Arg Arg His His Ser
<210> 9
<211> 14
<212> PRT
<213> Homo sapiens
<400> 9
Cys Glu Ala Arg Phe Ser Val Thr Val Arg Arg His His Cys
<210> 10
<211> 59
<212> PRT
<213> Homo sapiens
<400> 10
Trp Val Pro Asp Ser Gln Ala Pro Asn Cys Met Lys Cys Glu Ala Arg
                5
                                   10
Phe Thr Phe Thr Lys Arg Arg His His Cys Arg Ala Cys Gly Lys Val
                                 25
Phe Cys Ala Ser Cys Cys Ser Leu Lys Cys Lys Leu Leu Tyr Met Asp
                            40
Arg Lys Glu Ala Arg Val Cys Val Ile Cys His
<210> 11
<211> 4
<212> PRT
<213> Artificial Sequence
<220>
<223> Motif
<221> VARIANT
<222> 2, 3
<223> Xaa = any amino acid
<400> 11
Trp Xaa Xaa Asp
<210> 12
<211> 6
<212> PRT
<213> Artificial Sequence
<220>
<223> Motif
<221> VARIANT
<222> 1, 2
<223> Xaa = Arg or Lys
<400> 12
```

```
Xaa Xaa His His Cys Arg
<210> 13
<211> 4
<212> PRT
<213> Artificial Sequence
<220>
<223> Motif
<221> VARIANT
<222> 1
<223> Xaa = Ala, Thr or Ser
<221> VARIANT
<222> 2, 3
<223> Xaa = u = a highly hydrophobic residue such as
      Phe, Val, Ile, Leu, Met, Trp, Tyr or Thr
<221> VARIANT
<222> 4
<223> Xaa = j = a positively charged residue such as Arg
      or Lys
<400> 13
Xaa Xaa Xaa Xaa
<210> 14
<211> 4
<212> PRT
<213> Artificial Sequence
<220>
<223> Example of useful Turret loop
<400> 14
Ala Phe Phe Arg
<210> 15
<211> 4
<212> PRT
<213> Artificial Sequence
<220>
<223> Example of useful Turret loop
<400> 15
Ala Phe Ile Arg
1
<210> 16
<211> 4
<212> PRT
<213> Artificial Sequence
```

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<220>
<223> Example of useful Turret loop
<400> 16
Ala Ile Phe Arg
1
<210> 17
<211> 4
<212> PRT
<213> Artificial Sequence
<220>
<223> Example of useful Turret loop
<400> 17
Ala Phe Phe Lys
1
<210> 18
<211> 4
<212> PRT
<213> Artificial Sequence
<223> Example of useful Turret loop
<400> 18
Ala Phe Ile Lys
<210> 19
<211> 4
<212> PRT
<213> Artificial Sequence
<220>
<223> Example of useful Turret loop
<400> 19
Ala Ile Phe Lys
1
<210> 20
<211> 4
<212> PRT
<213> Artificial Sequence
<220>
<223> Example of useful Turret loop
<400> 20
Thr Phe Thr Lys
<210> 21
```

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<211> 5
<212> PRT
<213> Artificial Sequence
<220>
<223> Specific example
<400> 21
Gly Leu Ser Ala Leu
<210> 22
<211> 54
<212> PRT
<213> Homo sapiens
<400> 22
Trp Ala Glu Asp Asn Glu Val Gln Asn Cys Met Ala Cys Gly Lys Gly
1
                 5
                                    10
Phe Ser Val Thr Val Arg Arg His His Cys Arg Gln Cys Gly Asn Ile
                                25
Phe Cys Ala Glu Cys Ser Ala Lys Asn Ala Leu Thr Pro Ser Ser Lys
                            40
Lys Pro Val Arg Val Cys
   50
<210> 23
<211> 55
<212> PRT
<213> Homo sapiens
<400> 23
Trp Val Pro Asp Ser Gln Ala Pro Asn Cys Met Lys Cys Glu Ala Arg
1
                 5
                                    10
Phe Thr Phe Thr Lys Arg Arg His His Cys Arg Ala Cys Gly Lys Val
                                25
Phe Cys Ala Ser Cys Cys Ser Leu Lys Cys Lys Leu Leu Tyr Met Asp
```

Arg Lys Glu Ala Arg Val Cys

50